

Class II Compliance Review Checklist

Company: Pocahontas Gas LLC Facility: AW114ACV ID: VAS2D970BRUS

Inventory: Active: 1 TA: 0 PA: 0

MIT Review: Type(s) required: Casing/tubing pressure test Monitoring Reporting Year: 2019

Wells overdue:

none

Wells due in coming year:

none

Wells failing MIT review requiring follow up action:

none

TA Wells:

Wells overdue for 2-year non-endangerment demo in next year:

n/a

Wells due for non-endangerment demo in next year:

n/a

PA Wells:

All PA wells documented for proper closure? n/a

Is facility on schedule for P&A under CAO? no

P&A Plan acceptable? yes

Financial Responsibility: Mechanism used: Surety Performance Bond

Year of last 3rd-party cost estimate: 2017

Update of FR required? no

P-Max: 841 P-Max Reported: 540 Permitted Volume: 45,000 Total Volume Reported: 964

P-Max Violations: none

Other Violations/Deficiencies: no

Follow-up Action Necessary: no

WIMS Updated? yes

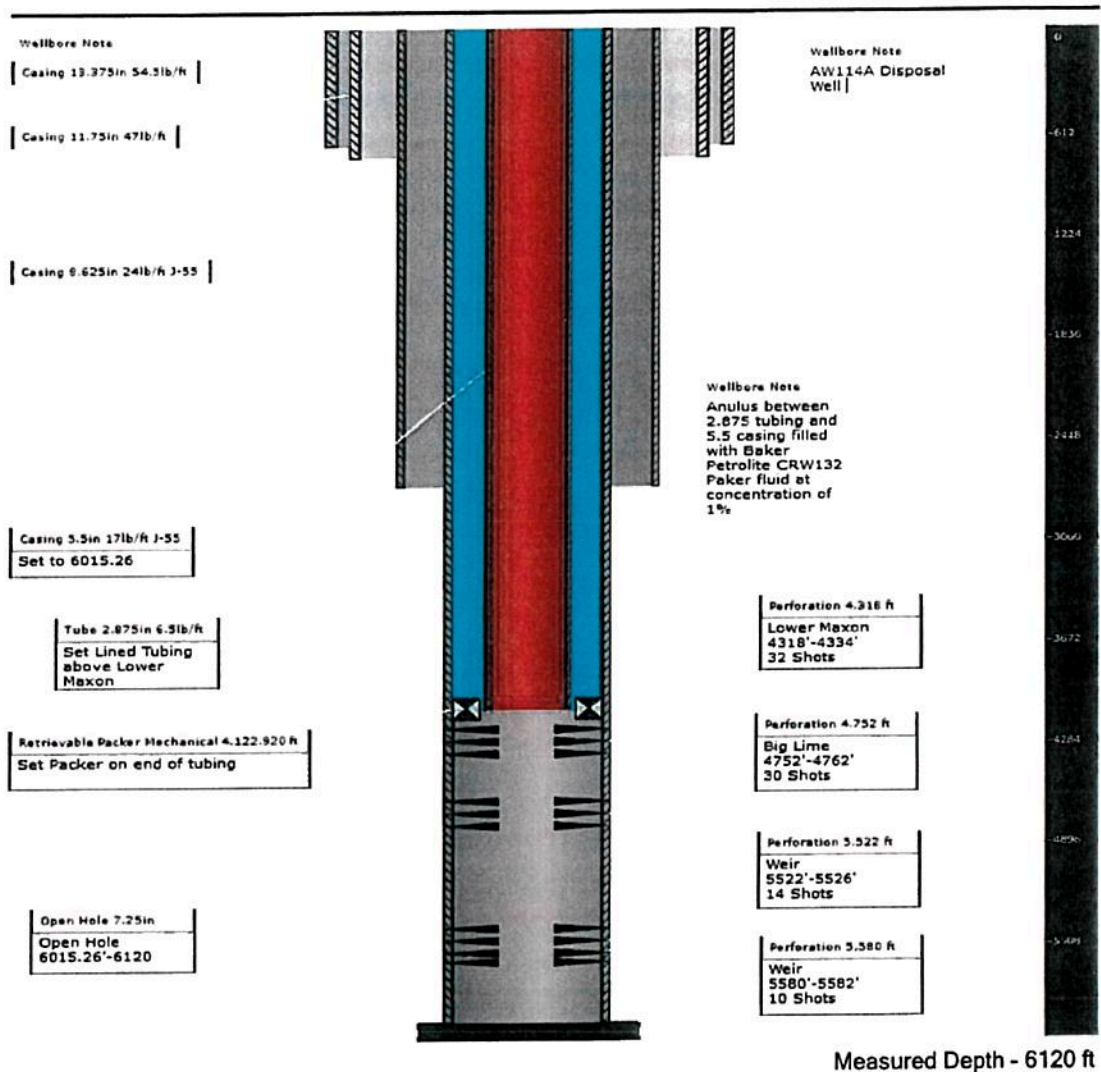
Comments:

Permitted Volume: 45,000 per month

Reviewer: JEREMY DEARDEN

Digitally signed by JEREMY DEARDEN  
Date: 2020.02.21 07:37:46 -05'00'

Date: 2/21/20



**Legend:**

Open Hole

Tubing

Perforation

Retrievable Packer Mechanical

Casing

# Mechanical Integrity Test Tubing/Casing Annulus Pressure Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
1650 Arch Street, Philadelphia, Pa 19103-2029

EPA Witness: DAVID RECTENWALD Date: 9/25/2019  
Test conducted by: ANDREW STATZER  
Others present: \_\_\_\_\_

Facility ID: VAS2D970BRUS

Well Name: AW114ACV - Type: ER SWD Status: AC TA UC

Field: \_\_\_\_\_

Location: 37° 7' 13.6" -81° 57' 37.5"

Operator: ANDREW STATZER (276) 596-5048

Last MIT: 9/25/2019 - Cement Bond Test Maximum Allowable Pressure: 841.00 PSIG

Regularly scheduled test? ☐ Yes ☐ No  
Initial test for permit? ☒ Yes ☐ No  
Test after well rework? ☐ Yes ☐ No

Well injecting during test? If Yes, rate: NO bpd  
Pre-test annulus pressure: 0 psig

## MIT DATA TABLE

	Test #1	Test #2	Test #3
<b>TUBING</b>		<b>PRESSURE RECORD</b>	
Initial Pressure	<u>863</u> psig	psig	psig
End of test pressure	<u>860</u> psig	psig	psig
<b>CASING/TUBING ANNULUS</b>		<b>PRESSURE RECORD</b>	
<u>10:03</u> 0 minutes	<u>1410.1</u> psig	psig	psig
5 minutes	psig	psig	psig
10 minutes	psig	psig	psig
15 minutes	psig	psig	psig
20 minutes	psig	psig	psig
25 minutes	psig	psig	psig
<u>10:33</u> 30 minutes	<u>1378.3</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Initial Test Pressure

1410.1

Initial Test Pressure x .05

-

70.5

VAS2D970BRUS

Results

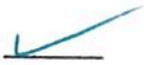
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1339.6

The Well passes Mechanical Integrity, if the final test pressure exceeds the result calculated above

Test result:

Passed



Failed

## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

INITIAL MIT TEST PRIOR TO AUTHORIZATION  
TO INJECT

Signature of Witness:

### OFFICE USE ONLY - COMPLIANCE FOLLOWUP

Staff

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Do you agree with the reported test results? ☐ YES ☐ NO

If not, why?

Possible violation identified? ☐ YES ☐ NO

If YES, what

If YES - followup initiated? ☐ YES☐ NO - why not?☐ Data Entry☐ Compliance Staff☐ 2<sup>nd</sup> Data Entry☐ Hardcopy Filing



Thursday, October 24, 2019  
3:12 PM

VAS2D970BRUS  
AW114ACV -  
U.S. Environmental Protection Agency, Region 3

EPA Inspector: Dave Rectenwald

Dave Rectenwald

Operator Representative:

ANDREW STATZER

Date: 9/25/2019

Time: 12:00 AM ☒ PM

### Well Data

CNX GAS COMPANY, LLC  
Status: Proposed Well (associated with permit application only)  
(PW)  
Type: Produced Fluid Disposal (2D )  
Latitude: 37° 7' 13.6"  
Longitude: -81° 57' 37.5"  
Last Insp: 09/25/2019 - Mechanical Integrity Tests Witnessed  
Last MI Test: 09/25/2019 - Cement Bond Test  
Max. Injection Pressure: 841.00

### Inspection Type (circle one)

Routine ☒ Construction / Rework  
Compliant ☐ Emergency  
MIT Witness ☐ Other

### Well Operating Status (circle one)

Active ☐ PA  
Shut-In ☐ TA  
☒ Under Construction ☐ Other

Well Injection Shut-off Device? Yes / ☒ No

Comments:

### Additional Information

NEWLY CONSTRUCTED CLASS  
2D DISPOSAL WELL. FACILITY  
PLANT AND TANK BATTERY  
NOT YET CONSTRUCTED.

### Device Type "As Found" Setting

Physical Pop-off \_\_\_\_\_ psi  
Analog (Murphy) \_\_\_\_\_ psi  
Digital \_\_\_\_\_ psi

Was Shut-Off  
Device Adjusted?  
Yes / No

Adjusted Pressure  
\_\_\_\_\_ psi

### Wellhead Pressure and Injection Volume – Observations

Tubing psi	Operator's Gauge (circle one)	Digital Analog	EPA's Gauge (circle one)	Digital Analog	EPA Gauge ID
Tbg/Csg Annulus psi Opened Annulus? Yes / No	Operator's Gauge (circle one)	Digital Analog	EPA's Gauge (circle one)	Digital Analog	EPA Gauge ID
Bradenhead Annulus psi Opened Annulus? Yes / No	Operator's Gauge (circle one)	Digital Analog	EPA's Gauge (circle one)	Digital Analog	EPA Gauge ID
Injection Rate And Volume  (Operator's Meter)			Rate (circle one) BDP / CFM	Cumulative Volume (circle one) BBL / MCF	Does Cumulative Volume Reset? Yes / No If Yes, Frequency
Photos Taken?	Photo Log (or other				

## Injected Chemicals

AW114ACV

VASD970BRUS

Chemical Name	Manufacturer	Use	Injection Rate
Xcide 408C	Baker Petrolite	Bactericide	20 ppm
SCW237	Baker Petrolite	Scale Inhibitor	20 ppm
CRW5494	Baker Petrolite	Corrosion Inhibitor	20 ppm



Pocahontas Gas LLC  
PO Box 570  
Pounding Mill, VA 24637

phone: 276-596-5048  
[andystatzer@cnx.com](mailto:andystatzer@cnx.com)

January 29, 2020

U.S. Environmental Protection Agency  
Source Water/UIC Section Water Division  
Attn: Kevin Rowsey  
1650 Arch Street  
Philadelphia, PA 19103

**RE:** Ball A1 Permit No. VAS2D921BBUC  
BPC 1 Permit No. VAS2D960BBUC  
N26VP2 Permit No. VAS2D930BBUC  
U 7 Permit No. VA52D926BBUC  
AW114ACV Permit No. VASD970BRUS

Dear Mr. Rowsey:

Please find enclosed a 2019 annual report for the above referenced injection well/s. Also enclosed are the annual samples for each well and a survey report for the U-7 injection well with Logs.

If you should have any questions, please do not hesitate to call me @ 276-596-5048

Sincerely,

A handwritten signature in blue ink, appearing to read 'Andy Statzer', with a long, sweeping horizontal line extending to the right.

Andy Statzer  
Senior Engineer Production

Enclosures



United States Environmental Protection Agency  
COMPLETION REPORT FOR INJECTION WELLS

Name, Address, Phone Number and/or Email of Permittee

CNX Gas Company LLC  
PO Box 570  
Pounding Mill, VA 24637  
276-596-5048  
andrewstatzer@cnx.com

State

Virginia

County

Russell

Permit (or EPA ID) Number

VAS2D970BRUS

API Number

451670040900

Full Well Name

AW114ACV

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface Location

1/4 of 1/4 of Section Township Range

ft. from (N/S) Line of quarter section

ft. from (E/W) Line of quarter section.

Latitude 37 07' 13.6"

Longitude -81 57' 37.5"

Anticipated Daily Injection Volume (Bbls)

Average

1,000

Maximum

1,500

Injection Interval (Perforated/Open Hole Interval)

Feet

to Feet

Weir 5522  
5580  
BIG LIME 4752  
LOWER MAXON 4318

5526  
5582  
4762  
4334

Depth to Bottom of Lowermost USDW (Feet)

300

Date Drilling Began

09/08/2006

Name of Injection Zone

Lower Maxon, Big Lime, Weir

Date Drilling Completed

10/09/2006

Fracture Pressure of Injection Zone

Lower Maxon 4114, Big Lime 4125, Weir 3329

Date Well Completed

11/07/2006

Permeability of Injection Zone

0.2 - 150 millidarcies

Porosity of Injection Zone

6-12 %

Complete Attachments; See Instructions.

## Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR § 144.32)

Name and Official Title (Please type or print)

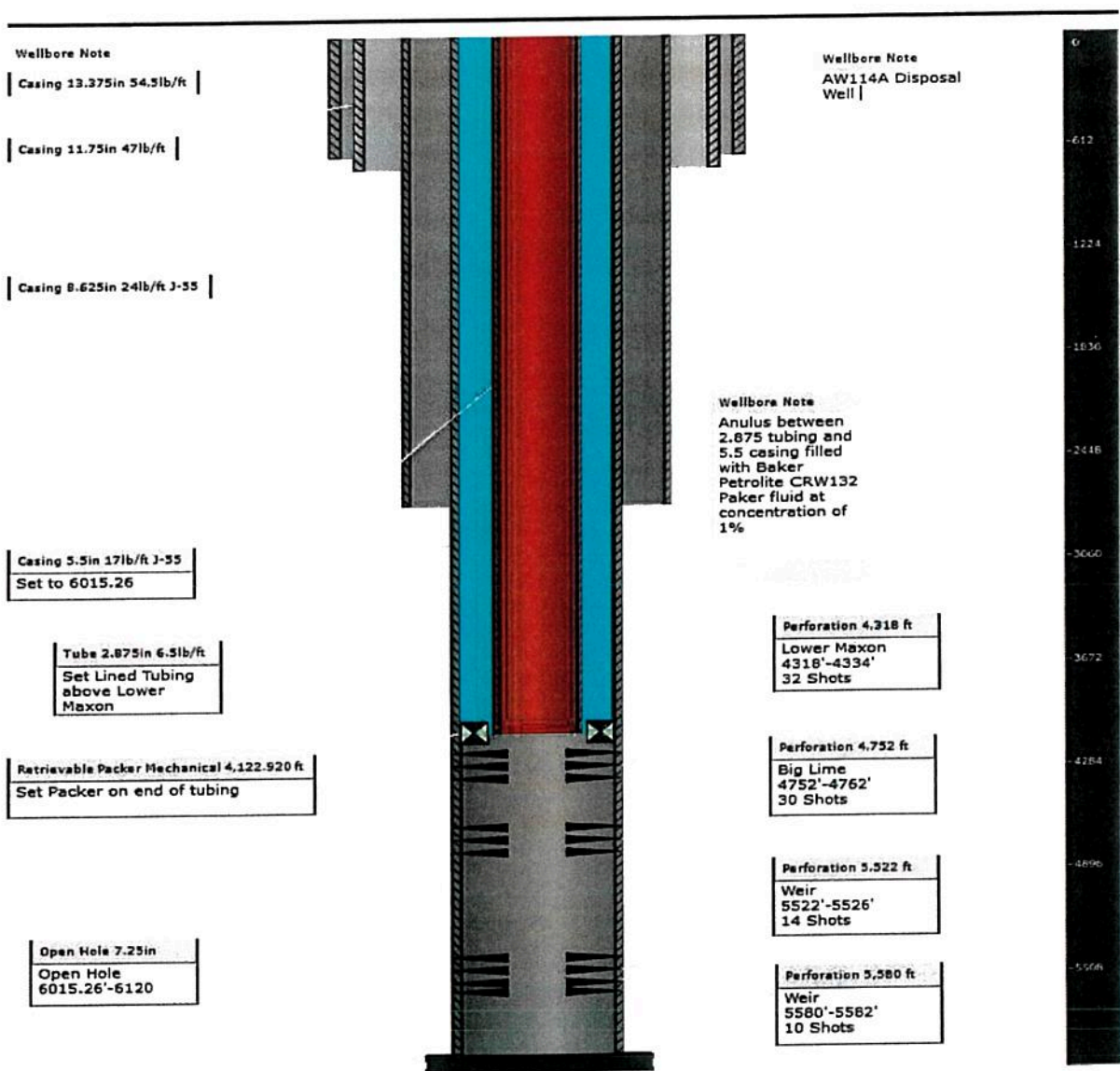
Andrew Statzer  
Production Engineer

Signature

Date Signed

11/7/2019





**Legend:**

Open Hole

Tubing

Perforation

Retrievable Packer Mechanical

Casing



United States Environmental Protection Agency

## ANNUAL CLASS II DISPOSAL/INJECTION WELL MONITORING REPORT

Name, Address, Phone and/or Email of Permittee

Pocahontas Gas LLC  
PO Box 570  
Pounding Mill, VA 24637  
andrewstatzer@cnx.com

State

Virginia

County

Russell

## WELL TYPE

- ☒ Brine Disposal  
☐ Enhanced Recovery  
☐ Hydrocarbon Storage

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface Location

1/4 of

1/4 of Section

Township

Range

ft. from (N/S)

Line of quarter section

ft. from (E/W)

Line of quarter section.

Latitude 37 07 13.52495

Longitude 81 57 37.08617

Permit or EPA ID Number

VASD970BRUS

API Number

451670040900

Full Well Name

AWI14ACV

## INJECTION PRESSURE

## TOTAL VOLUME INJECTED

TUBING -- CASING  
ANNULUS PRESSURE  
(IF SPECIFIED IN PERMIT)  
MAXIMUM PSIG

MONTH, YEAR

MAXIMUM PSIG

BBL

MCF

MAXIMUM PSIG

January-2019

February-2019

March-2019

April-2019

May-2019

June-2019

July-2019

August-2019

September-2019

October-2019

November-2019

December-2019

540.05

964

458.8

## Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR § 144.32)

Name and Official Title (Please type or print)

Craig W. Neal  
V.P. operations

Signature

Date Signed

1/21/2020

## INSTRUCTIONS FOR FORM 7520-11

Owners or operators of Class II injection wells should use this form to submit required monitoring data annually. Owners or operators of all other well classes should use Form 7520-8. Please submit a separate form for each well.

**NAME, ADDRESS, PHONE AND/OR EMAIL OF PERMITEE:** Enter the name and street address, city/town, state, and ZIP code of the permittee. Also provide an email address (if available) and/or a phone number.

Enter the **STATE** and **COUNTY** where the well is located. For States that do not have counties, use the name of that State's equivalent jurisdiction at a more local level.

Check the appropriate box to describe the **WELL TYPE**.

**WELL LOCATION:** Fill in the complete township, range, and section to the nearest quarter-quarter section. A township is north or south of the baseline, and a range is east or west of the principal meridian (e.g., T12N, R34W). Also include the distance, in feet, from the nearest north or south line and nearest east or west line of the quarter-section. Also, enter the **latitude** and **longitude** of the well in decimal degrees, to five or six places if possible; be sure to include a negative sign for the longitude of a well in the Western Hemisphere and a negative sign for the latitude of a well in the Southern Hemisphere.

**PERMIT OR EPA ID NUMBER:** Enter the well identification number or permit number assigned to the injection well by the EPA or the permitting authority.

**API NUMBER:** Enter the number assigned by the local jurisdiction (usually a State Oil and Gas Agency) using the American Petroleum Institute standard numbering system.

**FULL WELL NAME:** Enter the full name of the well or project.

Enter on a separate row, each month and year for which monitoring results are reported. Provide the following information: **MAXIMUM INJECTION PRESSURE**, in pounds per square inch gauge (psig); **TOTAL VOLUME INJECTED** in barrels (bbl) or millions of cubic feet (mcf); and **MAXIMUM TUBING-CASING ANNULUS PRESSURE** (if specified in the permit) in psig.

**CERTIFICATION:** This form must be signed and dated by either: a responsible corporate officer for a corporation, by a general partner for a partnership, by the proprietor of a sole proprietorship, or by a principal executive or ranking elected official for a public agency.

**PAPERWORK REDUCTION ACT NOTICE:** The public reporting and recordkeeping burden for this collection of information is estimated to average 29.7 hours per response. Burden means the total time, effort, or financial resource expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal Agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to the collection of information; search data sources; complete and review the collection of information; and, transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including the use of automated collection techniques to Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.





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U.S. Environmental Protection Agency  
Underground Injection Control Program  
1650 Arch Street, Philadelphia, Pa 19103-2029

EPA Witness: DAVID RECTENWALD Date: 9/25/2019  
Test conducted by: ANDREW STATZER  
Others present: \_\_\_\_\_

Facility ID: VAS2D970BRUS

Well Name: AW114ACV - Type: ER SWD Status: AC TA UC

Field: \_\_\_\_\_

Location: 37° 7' 13.6" -81° 57' 37.5"

Operator: ANDREW STATZER (276) 596-5048

Last MIT: 9/25/2019 - Cement Bond Test Maximum Allowable Pressure: 841.00 PSIG

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Initial test for permit? ☒ Yes ☐ No  
Test after well rework? ☐ Yes ☐ No

Well injecting during test? If Yes, rate: N/A bpd  
Pre-test annulus pressure: 0 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
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25 minutes	psig	psig	psig
10:33 30 minutes	1378.3 psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Initial Test Pressure

1410.1

Initial Test Pressure x .05

-

70.5

VAS20970BRUS

Results

=

1339.6

The Well passes Mechanical Integrity, if the final test pressure exceeds the result calculated above

Test result:

Passed



Failed

\_\_\_\_\_

## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

INITIAL MIT TEST PRIOR TO AUTHORIZATION  
TO INJECT

Signature of Witness:

### OFFICE USE ONLY - COMPLIANCE FOLLOWUP

Staff \_\_\_\_\_

Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Do you agree with the reported test results? ☐ YES ☐ NO

If not, why?

Possible violation identified? ☐ YES ☐ NO

If YES, what

If YES - followup initiated? ☐ YES☐ NO - why not?